

Aero Design Ltd.**Work Order Control Sheet**Work Order#: 2017-77 Date Opened: 26 April 2017 Title: FabricationAircraft OEM: Airbus Helicopters Aircraft Model: AS350/AS355 Product Type: Beams Product Model: Forward Quantity: 13**Work Order Contents**

Work Order/Build Sheets (Procedures Provided)
Additional Work Sheets (Standard Practice)
Drawings (See List Below)
Parts Distribution Sheet
Sub Component Tags
Completed Certification (Original)
Time Sheet (R&D)
Notes

Initial or N/A

JC
N/A
JC
JC
N/A
JC
N/A
N/A

Build Sheet Contents

Tasks Initialled
Dual Inspections Initialled

JC
JC

Drawing List

Drawing #	Rev #	Description	Initial or N/A
78635	0	Forward Beam	JC

Traveller**Component Completion**

Quantity Complete on This Work Order
Quantity Incomplete on This Work Order
Further Processing Required Before Release
Release to Stock as Components

As Instructed

13
N/A
N/A
N/A

Certification

Form One Completed
Serviceable (Green) Tag Completed
In Process (Yellow) Tag Completed
Unserviceable (Red) Tag Completed
Parts Tracking Tags (White) Completed
Parts Placed in Stores for Distribution

Initial or N/A

JC
N/A
N/A
N/A
JC
JC

Additional Documentation

Documentation of a minor change
Non-Conformance Report Required
Service Difficulty Report Required

Initial or N/A

JC
N/A
N/A

Billing

Local (Aero Design)
Research and Development
Third Party

JC
N/A
N/A

Notes

Work performed by:

Print: J. Clarke

ICC / Dual Inspection performed by:

Print: J. Rekve

Work Order closed by:

Print: J. Clarke

Approved Manufacturing Facility 73-04

Sign:

Sign:

Sign:

Form 2010.03

SCA: AD02

SCA: AD01

SCA: AD02

Date: 25-May-17Date: 25-May-17Date: 16-Aug-17

Rev. Original 23 Sep 2014



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

Nomenclature: Bushing No. of pieces: 7

Manufacturer: Aero Design

Part No.: 78630-04 Serial/Batch No.: 15073

TTSN: N/A TSO: N/A Rem.: N/A

Work Order No.: 2017-02

Remaining Tasks to be Performed: Weld in place

Signature: [Signature]

Date: March 16th/2016 Lic. No. / SCA AD-07

In Process



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AMF 73-04

Remarks

In Process



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

Nomenclature: Cap No. of pieces: 36 DB 40

Manufacturer: Aero Design Ltd.

Part No.: 78634-04 Serial / Batch No.: 10037

TTSN: N/A TSO: N/A Rem.: N/A

Work Order No.: _____

Remaining Tasks to be Performed: weld in place

Signature: [Signature]

Date: Feb 18 / 2016 Lic. No. / SCA AD-05

In Process



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

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AMF 73-04

Remarks

In Process

MOUNTING BEAM FABRICATION – 78635

General

These instructions apply to mounting beams 78635-01 (forward) for AS350/AS355 cargo baskets. Refer to the following drawings, at the current revision, for dimensions and details:

78635 – Forward Beam

Work Order: 2017-77

Batch Quantity: 13
(5 max, use additional sheets for more)

Complete
(initial or SCA #)

Date Open: 26 Apr 2017

#1 #2 #3 #4 #5

1. Beam Fabrication – 1x2 tubes

- Cut 1 x 2 x 0.065 material as indicated on drawings.
 - 78634-02 – 24.25"
- Record material PO on attached material list.
- De-burr cut ends using a sanding disc on a die-grinder. De-burr inside with de-burring tool.
- Remove writing on tubes with acetone.
- Tag in-progress parts and place on in-progress shelf in machine shop for CNC machining of keyways, slots, and bushing holes.

2. CNC Machining

- Run CNC programs to machine slots and holes in 78635-02 tubes.
- Run CNC programs to machine blanks for upper guides.
- De-burr slots and holes.
- Tag in-progress parts and place on in-progress shelf in welding shop for welding.

3. Beam Fabrication – Components

Note: Some components are used for many different beams and are made in batches on separate component work orders. Check stock before making components.

- Shear caps from 0.025" sheet: 78634-04.
- Cut 78634-03/78634-11/78634-12 pads from 1x1/8 stock.
- Cut and turn 69830-11 guide tubes from 3/4 x 0.065 tube.
- Cut 69830-07 blocks.
- Record component POs / WOs on attached material list and place on in-progress shelf in welding shop.

4. Beam Welding

- a. TIG weld 78634-04 pad, 3 places; 78634-11 pad, 1 place; and 78634-12 pad, 1 place, into 78634-02 tube.
 - i. Clamp two beams back to back with 1/8" spacer in middle to pre-stress beams prior to welding.
- b. Record component and welding rod POs / WOs on attached material list.
- c. Tag in-progress parts and place on in-progress shelf in welding shop for straightening.

5. Beam Straightening

Welding on one side of the beam causes the beam to curve. Beams must be straight prior to machining slots.

- a. Set beam on blocks as far apart as possible on hydraulic press.
- b. Use a 2" block to distribute press loads.
- c. Gradually work up to pressure required to make beam straight, usually about 800 psi is required. The same pressure generally works for beams from the same batch.
- d. Check for straight with a straight edge on back of tube.
- e. 78633-01 aft beams may require straightening on side as well, repeat steps a-d on side, using about 600 psi.
- f. Tag in-progress parts and place on in-progress shelf in CNC shop for machining.

6. CNC Machining

- a. Run CNC programs to machine keyways and slots in 78634-02 tubes with pads welded in place, after straightening.
- b. De-burr keyways and slots.
- c. Tag in-progress parts and place on in-progress shelf in welding shop for welding.

7. Beam Welding

- a. TIG weld 69830-11 guide tubes into 78634-02 tubes using ER308L rod, two places per down tube. Use jig to align guide tube to keyway and hole. Grind rosette welds flush.
- b. TIG weld 78633-04 bushings into 78634-02 tube using ER308L rod, four places per tube, both sides.
- c. TIG weld 69830-11 block to 78634-02 tube over 3rd keyway (see drawing) using ER308L rod.
- d. TIG weld 78634-04 cap to 78634-02 tube. Ensure 0.25" gap between cap and pad for basket fitting to enter top keyway.
- e. Record component and welding rod POs / WOs on attached material list.
- f. Tag in-progress parts and place on in-progress shelf in welding shop for straightening.

8. Beam Finishing

Welding on one side of the beam causes the beam to curve. Beams must be straight prior to powder coating.

- Set beam on blocks on hydraulic press. Straightening in sections may be required depending on severity of curve.
- Use a 2" block to distribute press loads.
- Gradually work up to pressure required to make beam straight, usually about 800 psi is required. The same pressure generally works for beams from the same batch.
- Check for straight with a straight edge on back of tube.
- 78633-01 aft beams may require straightening on side as well, repeat steps a-d on side, using about 600 psi.
- Drill out bushings to F (0.257"), four places per beam, on drill press.
- Break sharp edges on stops and flatten bushing locations using sanding disc on die-grinder.
- Tag in-progress parts and place on in-progress shelf in welding shop for inspection.

9. Final Inspection

To be completed by a different person than the previous steps.

- Inspect beams 78633-01 and 78634-01 for conformity to drawings.
- Tag in-progress parts ready for powder coating.

10. Powder Coating

- Parts are to be powder coated white in accordance with commercial practices.
- Record powder coating PO.
- Inspect powder coating on receiving.
- Tag in-progress parts ready for final assembly.

11. Final Assembly

To be completed after powder coating.

- Clear powder coat from stop pin hole(s) with 5/16 (#4) centre drill.
- For 776 (short), 764 (medium) or 784 (long) basket installation: Install #10-32 x 3" countersunk screw, 69830-21 stop, and 69830-23 spring into UPPER guide with 69830-22 knob and MS21044C3 nut. Check for function.
- For 940 (extra large) basket installation: Install #10-32 x 3" countersunk screw, 69830-21 stop, and 69830-23 spring into LOWER guide with 69830-22 knob and MS21044C3 nut. Check for function.
- If maintenance step is to be installed: Install stops above into BOTH guides per b and c.
- Adhere P/N placard to back surface of beam.
- Green tag complete beam assembly and place into stock.

TASK TAG



Aero Design Ltd.

AMF 73-04

9888A Malaspina Road
Powell River, BC, V8A 0G3
Phone: 604-483-2376
Fax: 604-483-2372
Email: info@aerodesign.ca

Work Order: 2017-77

☐ Copy #: _____
Copies to be used for completed parts or assemblies

Nomenclature: Forward Beam Total Quantity: 13

Part No.: 78635-01-00 Serial No.: NSN Batch/PO No.: _____

Manufacturer: ☒ Aero Design Ltd. ☐ _____

Created by: Jeff Clarke Date: 4/28/2017 SCA: AD02

Closed by: JH/CCL Date: 16/05/17 SCA: AD02

Task Sheet: AS350 Forward Beams Work Order: 2017-77

Task #	SCA	SCA	SCA	SCA
1.	Qty: <u>13</u> Date: <u>27 APR 2017</u> AD 73-04 02	Qty: _____ Date: _____ N/A	Qty: _____ Date: _____	Qty: _____ Date: _____
2.	Qty: <u>4</u> Date: <u>28 APR 2017</u> AD 73-04 02	Qty: <u>9</u> Date: <u>02 MAY 2017</u> AD 73-04 02	Qty: _____ Date: _____	Qty: _____ Date: _____
3.	Qty: <u>ALL</u> Date: <u>28 APR 2017</u> AD 73-04 02	Qty: _____ Date: _____ N/A	Qty: _____ Date: _____	Qty: _____ Date: _____
4.	Qty: <u>4</u> Date: <u>April 30/2017</u> AD 73-04 05	Qty: <u>9</u> Date: <u>May 24/2017</u> AD 73-04 05	Qty: _____ Date: _____	Qty: _____ Date: _____
5.	Qty: <u>4</u> Date: <u>1 MAY 2017</u> AD 73-04 02	Qty: <u>9</u> Date: <u>24 MAY 2017</u> AD 73-04 02	Qty: _____ Date: _____	Qty: _____ Date: _____
6.	Qty: <u>4</u> Date: <u>1 MAY 2017</u> AD 73-04 02	Qty: <u>9</u> Date: <u>24 MAY 2017</u> AD 73-04 02	Qty: _____ Date: _____	Qty: _____ Date: _____
7.	Qty: <u>4</u> Date: <u>May 1/2017</u> AD 73-04 05	Qty: <u>9</u> Date: <u>May 24/2017</u> AD 73-04 05	Qty: _____ Date: _____	Qty: _____ Date: _____
8.	Qty: <u>4</u> Date: <u>16 MAY 2017</u> AD 73-04 02	Qty: <u>9</u> Date: <u>25 May 2017</u> AD 73-04 02	Qty: _____ Date: _____	Qty: _____ Date: _____
9.	Qty: <u>4</u> Date: <u>16 MAY 2017</u> OK	Qty: <u>9</u> Date: <u>25 May 2017</u> OK	Qty: _____ Date: _____	Qty: _____ Date: _____
10.	Qty: <u>4 - PAINT</u> Date: <u>16 MAY 2017</u> OK	Qty: <u>2 - PAINT</u> Date: <u>26 May 2017</u> OK	Qty: <u>7</u> Date: <u>01 JUNE 2017</u> AD 73-04 02	Qty: _____ Date: _____

Note: Qty may be left blank if all parts are covered by one stamp.

Continued on back ☐

Remarks:

Task #	SCA	SCA	SCA	SCA
11.	Qty: <u>SEE RELEASE CERTS</u> Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____
12.	Qty: <u>End</u> Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____
13.	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____
14.	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____
15.	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____
16.	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____
17.	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____
18.	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____
19.	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____
20.	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____	Qty: _____ Date: _____

Work Order: 2017-77Material Tracking Sheet
Eurocopter AS350/AS355 Forward Mounting Beam

1 of 2

Date Opened: 26 Apr 2017

Ass'y Step	Qty	Detail Drawing	Part Number	Description	Material	PO/WO
	13		78635-01-00	Forward Beam Assembly		
Step 1				<i>Fabrication</i>		
	. 1		78634-02	Tube	1x2x0.065 Tube, 304 Stainless Steel	16024
Step 2				<i>Machning</i>	None	
Step 4				<i>Fabrication</i>		
40 total	. 3		78634-03	Pad	1x0.125 Bar, 304 Stainless Steel	16058
16 total	. 1		78634-11	Pad	1x0.125 Bar, 304 Stainless Steel	16058
15 total	. 1		78634-12	Pad	1x0.125 Bar, 304 Stainless Steel	16058
	. 1		78634-04	Cap	0.025" Sheet, 321 Stainless Steel	3021
	. 4		78630-04	Bushing	0.375 x 0.065 Tube, 304 Stainless Steel	15073
	. 2	69830	69830-11	Guide	0.75 x 0.065 Tube, 304 Stainless Steel	2016-79
			69830-7	Block	.188 square rod	2016-77
Step 6				<i>Welding</i>		
	. A/R		--	Welding Rod	ER308L	14028
Step 7				<i>Straightening</i>	None	
Step 8				<i>Machning</i>	None	
Step 10				<i>Welding</i>		
	. A/R		--	Welding Rod	ER308L	14028
Step 11				<i>Finishing</i>	None	
Step 12				<i>Final Inspection</i>	None	
Step 13				<i>Powder Coating</i>		17054 (7)

Work Order: _____

Material Tracking Sheet
Eurocopter AS350/AS355 Forward Mounting Beam

2 of 2

Date Opened: _____

Ass'y Step	Qty	Detail Drawing	Part Number	Description	Material	PO/WO
Step 15				<i>Final Assembly</i>		
	. 2	69830	69830-21	Stop	0.625 Rod, 6061-T6 Aluminum	
	. 2	69830	69830-22	Knob	0.75 Rod, 6061-T6 Aluminum	
	. 2	69830	69830-23	Spring	15mm x 70mm Spring, Stainless Steel	
	. 2		69830-1032X3	3" #10-32 C'sunk screw	Stainless Steel	
	. 2		MS21044C3	Nut		
	. 1		--	P/N Placard	TZ Tape, 1/2", black on white	

TOP VIEW PRIOR TO WELDING

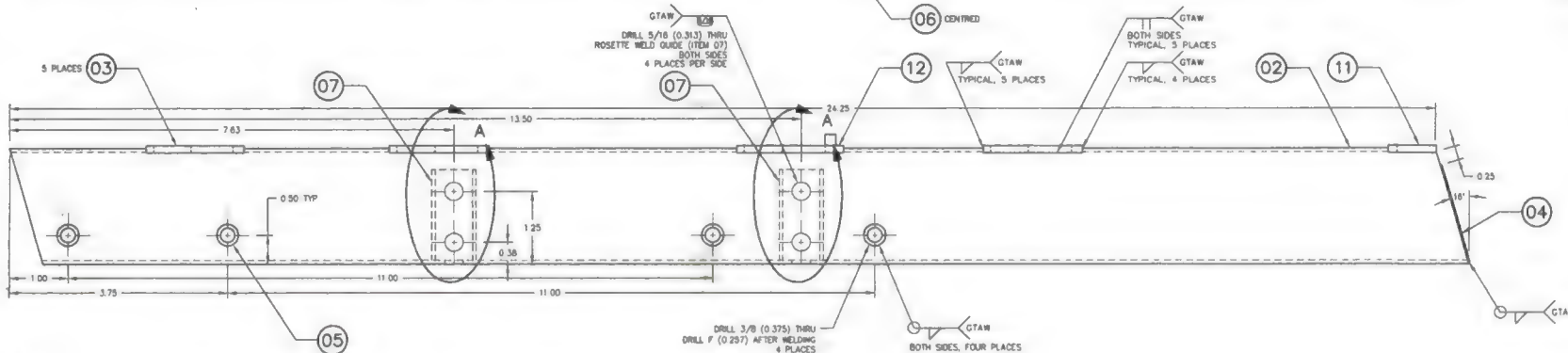
Dimensions (inches):

- Overall width: 23.48
- Overall length: 16.50
- Slot width: 1.688
- Slot spacing (center-to-center): 1.813
- Distance from left edge to first slot center: 2.34
- Distance from first slot center to second slot center: 1.688
- Distance from second slot center to third slot center: 12.41
- Distance from third slot center to fourth slot center: 1.688
- Distance from fourth slot center to fifth slot center: 1.813
- Distance from fifth slot center to sixth slot center: 1.688
- Distance from sixth slot center to seventh slot center: 1.813
- Distance from seventh slot center to eighth slot center: 1.688
- Distance from eighth slot center to ninth slot center: 1.813
- Distance from ninth slot center to tenth slot center: 1.688
- Distance from tenth slot center to right edge: 1.688

Note: MILL SLOT 0.080 DEEP TYPICAL, 5 PLACES

Technical drawing of a long, narrow mechanical component, likely a bracket or support arm. The drawing shows the component with various features and dimensions:

- Overall length: 11 063
- Dimensions from the left end:
 - 2 69 (to the first hole)
 - 4 16 (to the second hole)
 - 12 75 (to the third hole)
 - 4 19 (to the fourth hole)
- Features:
 - Four circular holes of varying diameters.
 - A rectangular slot with a width of 4 19.
 - A feature labeled "GTAW" (Gas Tungsten Arc Welding) pointing to a specific location.
 - A feature labeled "B" pointing to a circular hole.



16

0.81 ± 0.003

1.00

15

4 PLACES

1.81 ± 0.003

1.00

⑫ PAD



④ CAP



⑤ BUSHING



③ PAD

- | APPROVALS | | DATE |
|-----------|-------------|--------------|
| DRAWN | JEFF CLARKE | 06 SEPT 2018 |
| CHECKED | JASON REKVE | 06 SEPT 2018 |

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON:

DECIMALS	ANGLES
X.XXX ±0.010	±1/2°
X.XX ±0.03	
X.X ±0.1	



AERO DESIGN LTD.

9888A MALASPINA ROAD
POWELL RIVER, BC, CANADA, V8A 0G3
TEL. 254-483-8878 www.aerodigestion.ca

**AIRBUS HELICOPTERS AS350 & AS355 SERIES
ATTACHMENT PROVISION
FORWARD BEAM FABRICATION**

SCALE 1 1	DWG. SIZE	DWG. NO.	REV.
SHEET 1 OF 1	A1	78635	0

1	78634-12	12	PAD	304 STAINLESS STEEL	ASTM A240	1 0 X 0 125 BAR
1	78634-11	11	PAD	304 STAINLESS STEEL	ASTM A240	1 0 X 0 125 BAR
2	MS2104C3		NUT			
2	110-32		C/SUNK SCREW	STAINLESS STEEL	COMMERCIAL	
2	69830-23	10	SPRING	ALUMINUM	COMMERCIAL	15mm X 70mm SPRING
2	69830-22	09	KNOB	90B1-T6 ALUMINUM	90-A-205/B	70 X 70mm
2	69830-21	08	STOP	90B1-T6 ALUMINUM	90-A-205/B	80 X 82mm
2	69830-11	07	GUIDE	304 STAINLESS STEEL	ASTM A269	80 W5 X 0.085 INOD TUBE
1	69830-07	06	BLOCK	304 STAINLESS STEEL	ASTM A479	0188 SOR ROD
4	78630-04	05	BUSHING	304 STAINLESS STEEL	ASTM A269	80 375 X 0.085 INOD TUBE
4	78634-04	04	CAP	304 STAINLESS STEEL	AMS 5513	0.050 SHEET
3	78634-03	03	CAP	304 STAINLESS STEEL	ASTM A240	1 0 X 0 125 BAR
2	78634-02	02	TUBE	304 STAINLESS STEEL	ASTM A254	1 1 X 2 X 0.065 TUBE
1	78635-01-00	01	BEAM ASSEMBLY			
QTY	PART NO	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE
				LIST OF MATERIALS		

1. Approving Civil Aviation Authority/Country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE FORM ONE			3. Form Tracking No. 2017-0282
4. Organization Name and Address AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3					5. Work Order/Contract/Invoice WO 2017-77
6. Item 1.	7. Description Forward Beam	8. Part Number 78635-01-00	9. Qty. 1	10. Serial/Batch No. N/A	11. Status/Work New
12. Remarks Black					
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.			14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.		
13b. Signature <i>Jeff Clarke</i> AD 73-04 02		13c. Approved Organization Number AMF 73-04		14b. Signature	
13d. Name Jeff Clarke - AD02		13e. Date (dd/mm/yyyy) 03 Aug 2017		14c. Approved Organization Number	
				14d. Name	
				14e. Date (dd/mm/yyyy)	
Installer Responsibilities This certificate does not constitute authority to install. Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified. Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.					

MAVERICK AIR



Aero Design Ltd.

9888 A Malaspina Rd., Powell River, BC
V8A 0G3, 604-483-AERO (2376)

Quantity: 1

PN: 78635-01-00

Aircraft: Eurocopter

Model: AS350/355

Description: Forward Beam

Supplier: N/A

Color: White

WO#: 2017-77

PO#: N/A

Description: Beam Pin

WO#

Approved Manufacturing Facility 73-04

Form 20.F.06

Rev. Original 27 May 2013

1. Approving Civil Aviation Authority/Country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE FORM ONE			3. Form Tracking No. 2017-0265	
4. Organization Name and Address AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3					5. Work Order/Contract/Invoice WO 2017-77	
6. Item 1.	7. Description Forward Beam	8. Part Number 78635-01-00	9. Qty. 1	10. Serial/Batch No. N/A	11. Status/Work New	
12. Remarks						
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.				14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12. Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.		
13b. Signature 		13c. Approved Organization Number AMF 73-04		14b. Signature		14c. Approved Organization Number
13d. Name Jason Rekve - AD01		13e. Date (dd/mm/yyyy) 10 July 2017		14d. Name		14e. Date (dd/mm/yyyy)
<p align="center">Installer Responsibilities</p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>						

Custom



Aero Design Ltd.

9888 A Malaspina Rd., Powell River, BC
V8A 0G3, 604-483-AERO (2376)

Quantity:

1

PN:

78635-01-00

Aircraft:

Eurocopter

Description:

Forward Beam

Supplier:

N/A

Color:

White

WO#:

2017-77

Model: AS350/355

PO#: N/A

Aero Design

Parts Distribution Sheet

Description: Beam Pin

WO#[illegible]

1. Approving Civil Aviation Authority/Country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE FORM ONE			3. Form Tracking No. 2017-0257
4. Organization Name and Address AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3					5. Work Order/Contract/Invoice WO 2017-77
6. Item 1.	7. Description Forward Beam	8. Part Number 78635-01-00	9. Qty. 1	10. Serial/Batch No. N/A	11. Status/Work New
12. Remarks					
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.			14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations .		
13b. Signature  AD 73-04 02		13c. Approved Organization Number AMF 73-04		14b. Signature	
13d. Name Jeff Clarke - AD02		13e. Date (dd/mm/yyyy) 05 July 2017		14c. Approved Organization Number	
				14d. Name	
				14e. Date (dd/mm/yyyy)	
<p align="center">Installer Responsibilities</p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>					

ARROW HELICOPTERS



Aero Design Ltd.

9888 A Malaspina Rd., Powell River, BC
V8A 0G3, 604-483-AERO (2376)

Quantity: 1

PN: 78635-01-00

Aircraft: Eurocopter

Model: AS350/355

Description: Forward Beam

Supplier: N/A

Color: White

WO#: 2017-77

PO#: N/A



Aero Design Ltd.

9888 A Malaspina Rd., Powell River, BC
V8A 0G3, 604-483-AERO (2376)

Quantity: 1

PN: 78635-01-00

Aircraft: Eurocopter

Model: AS350/355

Description: Forward Beam

Supplier: N/A

Color: White

WO#: 2017-77

PO#: N/A



Aero Design

Parts Distribution Sheet

ARROW HELICOPTERS

05 July 2017

Description: Beam Pin

WO#

[illegible]

1. Approving Civil Aviation Authority/Country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE FORM ONE			3. Form Tracking No. 2017-0253
4. Organization Name and Address AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3					5. Work Order/Contract/Invoice WO 2017-77
6. Item 1.	7. Description Forward Beam	8. Part Number 78635-01-00	9. Qty. 1	10. Serial/Batch No. N/A	11. Status/Work New
12. Remarks					
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.			14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations .		
13b. Signature  73-04 02		13c. Approved Organization Number AMF 73-04		14b. Signature	
13d. Name Jeff Clarke - AD02		13e. Date (dd/mm/yyyy) 05 July 2017		14c. Approved Organization Number	
				14d. Name	
				14e. Date (dd/mm/yyyy)	
<p align="center">Installer Responsibilities</p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>					

ARROW HELICOPTERS

A

Description: Beam Pin

WO#

Approved Manufacturing Facility 73-04

Form 20.F.06

Rev. Original 27 May 2013

1. Approving Civil Aviation Authority/Country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE FORM ONE			3. Form Tracking No. 2017-0232	
4. Organization Name and Address AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3					5. Work Order/Contract/Invoice WO 2017-77	
6. Item 1.	7. Description Forward Beam	8. Part Number 78634-01-00	9. Qty. 1	10. Serial/Batch No. N/A	11. Status/Work New	
12. Remarks						
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.				14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations .		
13b. Signature  AD 73-04 02		13c. Approved Organization Number AMF 73-04		14b. Signature		14c. Approved Organization Number
13d. Name Jeff Clarke - AD02		13e. Date (dd/mm/yyyy) 14 June 2017		14d. Name		14e. Date (dd/mm/yyyy)
<p style="text-align: center;">Installer Responsibilities</p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>						

HELI PRODUCTS



Aero Design Ltd.

9888 A Malaspina Rd., Powell River, BC
V8A 0G3, 604-483-AERO (2376)

Quantity: 1

PN: 78635-01-00

Aircraft: Eurocopter

Model: AS350/355

Description: Forward Beam

Supplier: N/A

Color: White

WO#: 2017-77

PO#: N/A



Description: Beam Pin

WO#

Approved Manufacturing Facility 73-04

Form 20.F.06

Rev. Original 27 May 2013

1. Approving Civil Aviation Authority/Country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE FORM ONE			3. Form Tracking No. 2017-0228
4. Organization Name and Address AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3					5. Work Order/Contract/Invoice WO 2017-77
6. Item 1.	7. Description Forward Beam	8. Part Number 78635-01-00	9. Qty. 2	10. Serial/Batch No. N/A	11. Status/Work New
12. Remarks					
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.			14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.		
13b. Signature  AD 73-04 02		13c. Approved Organization Number AMF 73-04		14b. Signature	
13d. Name Jeff Clarke - AD02		13e. Date (dd/mmm/yyyy) 12 June 2017		14c. Approved Organization Number	
				14d. Name	
				14e. Date (dd/mmm/yyyy)	
<p align="center">Installer Responsibilities</p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>					

HELI ALPES



Aero Design Ltd.

9888 A Malaspina Rd., Powell River, BC
V8A 0G3, 604-483-AERO (2376)

1

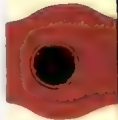
78635-01-00

Eurocopter

Forward Beam

Model: AS350/355

PO#: N/A





Aero Design Ltd.

9888 A Malaspina Rd., Powell River, BC
V8A 0G3, 604-483-AERO (2376)

Quantity: 1

PN: 78635-01-00

Aircraft: Eurocopter

Model: AS350/355

Description: Forward Beam

Supplier: N/A

Color: White

WO#: 2017-77

PO#: N/A





Description: Beam Pin

WO# 2017-97-LH

Approved Manufacturing Facility 73-04

Form 20.F.06

Rev. Original 27 May 2013



WO# 2017-97-RH

Approved Manufacturing Facility 73-04 Form 20.F.06 Rev. Original 27 May 2013

1. Approving Civil Aviation Authority/Country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE FORM ONE			3. Form Tracking No. 2017-0223	
4. Organization Name and Address AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3					5. Work Order/Contract/Invoice WO 2017-77	
6. Item	7. Description	8. Part Number	9. Qty.	10. Serial/Batch No.	11. Status/Work	
1.	Forward Beam	78634-01-00 <i>359</i>	1	N/A	New	
12. Remarks						
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.				14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12. Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.		
13b. Signature <i>Jeff Clarke</i> AD 73-04 02		13c. Approved Organization Number AMF 73-04		14b. Signature		14c. Approved Organization Number
13d. Name Jeff Clarke - AD02		13e. Date (dd/mmm/yyyy) 01 June 2017		14d. Name		14e. Date (dd/mmm/yyyy)
<p align="center">Installer Responsibilities</p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>						

Access Helicopters

Aero Design

Parts Distribution Sheet

Access Helicopters

Description: AS350 Forward Beam

WO# 2017-77

[illegible]

1. Approving Civil Aviation Authority/Country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE FORM ONE			3. Form Tracking No. 2017-0214
4. Organization Name and Address AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3					5. Work Order/Contract/Invoice WO 2017-77
6. Item 1.	7. Description Forward Beam	8. Part Number 78634-01-00	9. Qty. 1	10. Serial/Batch No. N/A	11. Status/Work New
12. Remarks					
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.			14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.		
13b. Signature 		13c. Approved Organization Number AMF 73-04		14b. Signature	
13d. Name Jeff Clarke - AD02		13e. Date (dd/mmm/yyyy) 29 May 2017		14c. Approved Organization Number	
				14d. Name	
				14e. Date (dd/mmm/yyyy)	
<p align="center">Installer Responsibilities</p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>					

FOREST AIR HELICOPTERS



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

Nomenclature: AS350 FWD BEAM No. of pieces: 1

Manufacturer: Aero Design Ltd

Part No.: 78635-01-00 Serial/Batch No.: NA

TTSN: NA TSO: NA Rem.: NA

Work Order No.: 2017-77

Remaining Tasks to be Performed: Straighten, clean up
and inspect for powder, powder coat.
See back.

Signature: David May

Date: May 1/2017 Lic. No. / SCA AD-05

In Process



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

In Process

Remarks

Drill bushing holes - Done May 1/2017 AD-05

29 MAY 2017



WO#

Approved Manufacturing Facility 73-04

Rev. Original 27 May 2013

1. Approving Civil Aviation Authority/Country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE FORM ONE			3. Form Tracking No. 2017-0201
4. Organization Name and Address AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3					5. Work Order/Contract/Invoice WO 2017-77
6. Item 1.	7. Description Forward Beam	8. Part Number 78634-01-00	9. Qty. 1	10. Serial/Batch No. N/A	11. Status/Work New
12. Remarks					
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.			14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.		
13b. Signature <i>Jeff Clarke</i> AD 73-04 02		13c. Approved Organization Number AMF 73-04		14b. Signature	
13d. Name Jeff Clarke - AD02		13e. Date (dd/mmm/yyyy) 24 May 2017		14c. Approved Organization Number	
				14d. Name	
				14e. Date (dd/mmm/yyyy)	
<p align="center">Installer Responsibilities</p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>					

DELTA Helicopters



Description: AS350 Forward Beam

WO#

Approved Manufacturing Facility 73-04

Form 20.F.06

Rev. Original 27 May 2013

1. Approving Civil Aviation Authority/Country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE FORM ONE			3. Form Tracking No. 2017-0197
4. Organization Name and Address AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3					5. Work Order/Contract/Invoice WO 2017-77
6. Item 1.	7. Description Forward Beam	8. Part Number 78635-01-00	9. Qty. 2	10. Serial/Batch No. N/A	11. Status/Work New
12. Remarks					
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.			14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations .		
13b. Signature  AD 73-04 02		13c. Approved Organization Number AMF 73-04		14b. Signature	
13d. Name Jeff Clarke - AD02		13e. Date (dd/mmm/yyyy) 29 May 2017		14c. Approved Organization Number	
				14d. Name	
				14e. Date (dd/mmm/yyyy)	
<p align="center">Installer Responsibilities</p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>					

HELITECNIA SPAIN



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

Nomenclature: AS350 FWD BEAM No. of pieces: 1

Manufacturer: Aero Design Ltd.

Part No.: 78635-01-00 Serial/Batch No.: NA

TTSN: NA TSO: NA Rem.: NA

Work Order No.: 2017-77

Remaining Tasks to be Performed: Strengthen, clean up and
inspect for powder, powder coat.
See back:

Signature: [Signature]

Date: May 1/2017 Lic. No. / SCA AD-05

In Process



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

In Process

Remarks

Drill bushing holes - Done May 1/2017 AD-05



WO# _____

Approved Manufacturing Facility 73-04

Form 20.F.06

Rev. Original 27 May 2013



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

Nomenclature: AS350 FWD BEAM No. of pieces: 1

Manufacturer: Aero Design Ltd.

Part No.: 78635-01-00 Serial/Batch No.: NA

TTSN: NA TSO: NA Rem.: NA

Work Order No.: 2017-77

Remaining Tasks to be Performed: Straighten, clean up and
inspect for powder, powder coat.

See back.

Signature: [Signature]

Date: May 1/2017 Lic. No./SCA AD-05

In Process



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

In Process

Remarks

Drill bushing hole S-Done May 1/2017 AD-05



WO# _____

Approved Manufacturing Facility 73-04 Form 20.F.06 Rev. Original 27 May 2013

1. Approving Civil Aviation Authority/Country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE FORM ONE			3. Form Tracking No. 2017-0191	
4. Organization Name and Address AERO Design Ltd. – 9888A Malaspina Road, Powell River, BC, V8A 0G3					5. Work Order/Contract/Invoice WO 2017-77	
6. Item 1.	7. Description Forward Beam	8. Part Number 78634-01-00	9. Qty. 1	10. Serial/Batch No. N/A	11. Status/Work New	
12. Remarks						
13a. Certifies that the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.				14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12. Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.		
13b. Signature  AD 73-04 02		13c. Approved Organization Number AMF 73-04		14b. Signature		14c. Approved Organization Number
13d. Name Jeff Clarke - AD02		13e. Date (dd/mmm/yyyy) 17 May 2017		14d. Name		14e. Date (dd/mmm/yyyy)
<p style="text-align: center;">Installer Responsibilities</p> <p>This certificate does not constitute authority to install.</p> <p>Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.</p> <p>Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.</p>						

GLACIER HELI COPTERS



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

Nomenclature: AS350 FWD BEAM No. of pieces: 1

Manufacturer: Aero Design Ltd.

Part No.: 78635-01-00 Serial/Batch No.: NA

TTSN: NA TSO: NA Rem.: NA

Work Order No.: 2017-77

Remaining Tasks to be Performed: Straighten, clean up and
inspect for powder, powder coat.

See back:

Signature: [Signature]

Date: May 1/2017 Lic. No. / SCA AD-05

In Process



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

In Process

Remarks

Drill bushing holes - Done May 1/2017 AD-05
Complete + painted 17 MAY 2017 JC. AD02

Aero Design

Parts Distribution Sheet

Description: AS350 Forward Beam

WO# 2017-77

[illegible]